

PATENT  
37310-000125

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Sungho JIN et al.

Serial No.: 09/338,520

Filed: June 23, 1999

For: CATHODE WITH IMPROVED WORK FUNCTION AND METHOD  
FOR MAKING THE SAME



Group: 2879

Examiner: T. Clove

AMENDMENT

Assistant Commissioner for Patents  
Washington, D.C. 20231

November 28, 2001

Dear Sir:

Responsive to the non-final Office Action dated August 28, 2001, please enter the following amendments and comments.

IN THE CLAIMS

Please cancel claim 5 without prejudice or disclaimer of the subject matter contained therein.

Please amend the claims as follows:

1. (Amended) A thermoionic cathode, comprising:

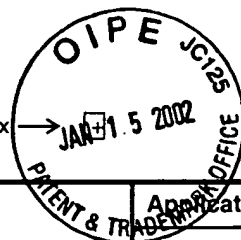
a substrate;

an emissive layer; and

a buffer, located between said substrate and said emissive layer, said buffer inhibiting interaction of said emissive layer and said substrate by way of one of altering, blocking, and altering and blocking said substrate.

2. (Amended) The thermoionic cathode of claim 1, wherein said buffer alters said substrate by randomizing a crystallographic orientation of a grain structure at a surface of said substrate contacting said buffer.

Please type a plus sign (+) inside this box



HDP/SB/21 based on PTO/SB/21 (08-00)

GP #2879

# TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Application Number	09/338,520
Filing Date	June 23, 1999
First Named Inventor	Sungho JIN et al.
Group Art Unit	2879
Examiner Name	T. Clove
Attorney Docket Number	37310-000125

Total Number of Pages in This Submission 15

## ENCLOSURES (check all that apply)

<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input checked="" type="checkbox"/> Amendment / Response <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Assignment Papers (for an Application) <input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): <b>Drawing Change Authorization Request and Change of Address</b>
Remarks The Commissioner is hereby authorized to charge any additional fees that may be required under 37 CFR 1.16 or 1.17 to Deposit Account No. 50-1735. A duplicate copy of this sheet is enclosed.		

## SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	Harness, Dickey & Pierce, P.L.C.	Attorney Name	John A. Castellano	Reg. No.	34,094
Signature					
Date	November 28, 2001				

## CERTIFICATE OF MAILING/TRANSMISSION

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner of Patents and Trademarks, Washington, D.C. 20231, or facsimile transmitted to the U.S. Patent and Trademark Office on the date indicated below.

Typed or printed name	John A. Castellano	Signature		Date	November 28, 2001
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